

Data File : VN057056.D
Acq On : 2 Aug 2019 11:13
Operator : JC/SP
Sample : K4118-24
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ182I-20190731

Quant Time: Aug 03 04:21:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	540107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	778278	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	633964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	166756	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	305453	55.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.50%	
35) Dibromofluoromethane	7.58	113	276542	55.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.02%	
50) Toluene-d8	10.08	98	1017644	53.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.12%	
62) 4-Bromofluorobenzene	12.40	95	258225	41.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.50%	

Target Compounds

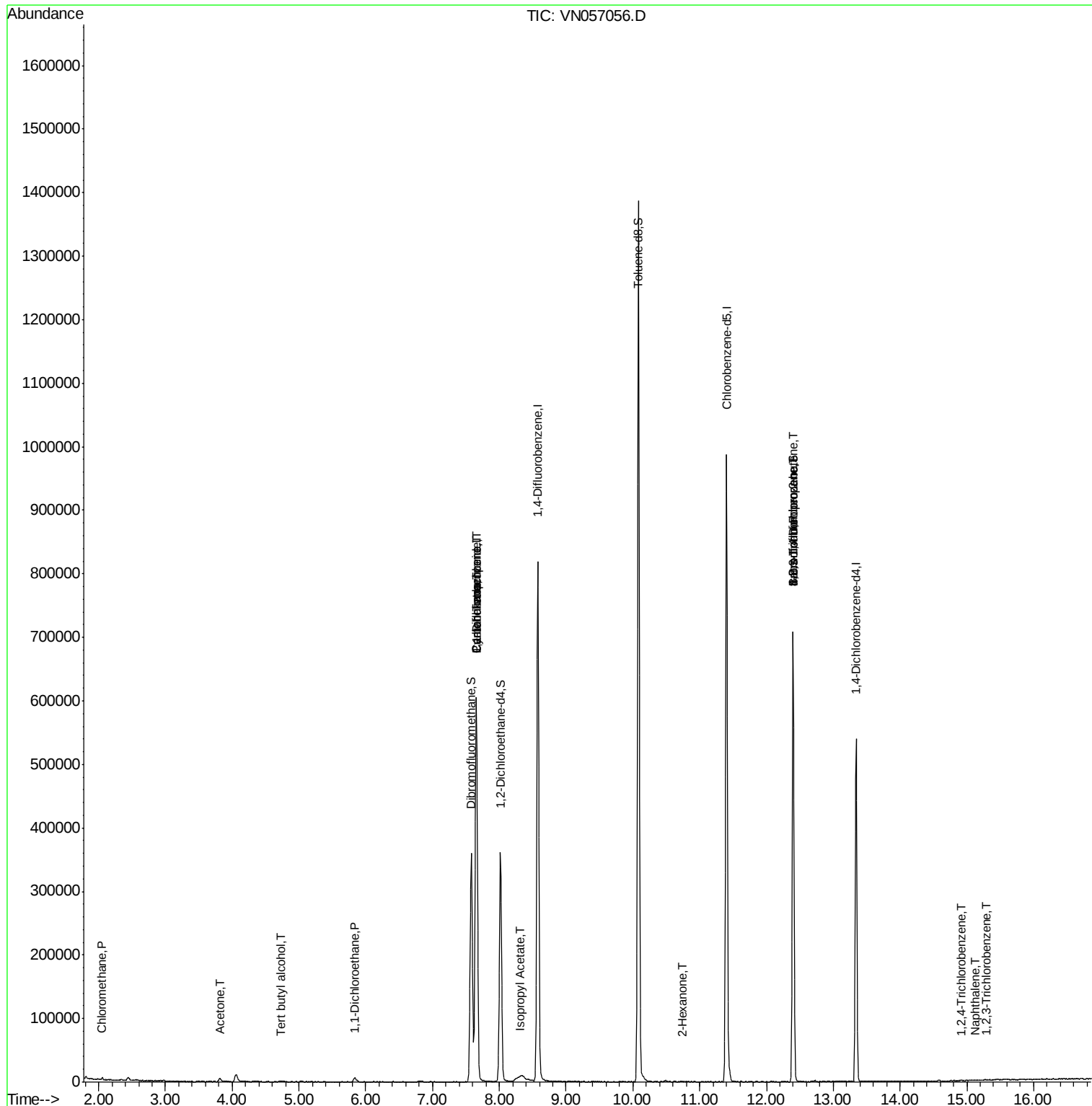
						Qvalue
3) Chloromethane	2.06	50	3799	0.581	ug/l	90
11) Tert butyl alcohol	4.72	59	831	1.112	ug/l #	74
16) Acetone	3.82	43	9165	4.576	ug/l	93
24) 1,1-Dichloroethane	5.84	63	9744	1.038	ug/l #	94
31) Cyclohexane	7.65	56	7949	0.875	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	34084	4.977	ug/l #	48
38) Carbon Tetrachloride	7.65	117	44897	6.931	ug/l #	17
43) Isopropyl Acetate	8.30	43	10161	1.121	ug/l #	52
59) 2-Hexanone	10.74	43	128	2.530	ug/l #	23
71) Bromoform	12.40	173	2128	0.627	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	33	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	119952	35.420	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119952	113.804	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	328	2.818	ug/l	83
95) Naphthalene	15.13	128	469	3.649	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	465	2.202	ug/l #	29

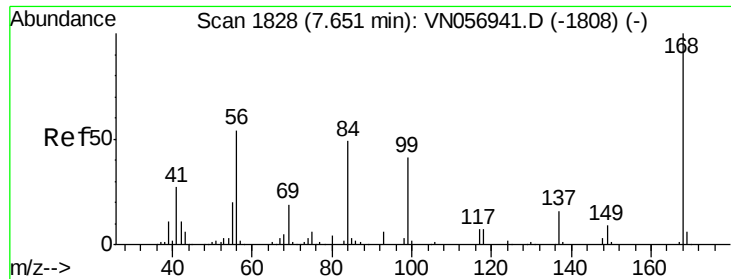
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

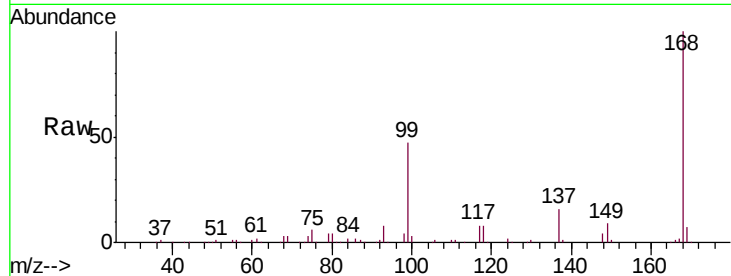
SA-PZ182I-20190731

Tgt Ion:168 Resp: 540107

Ion Ratio Lower Upper

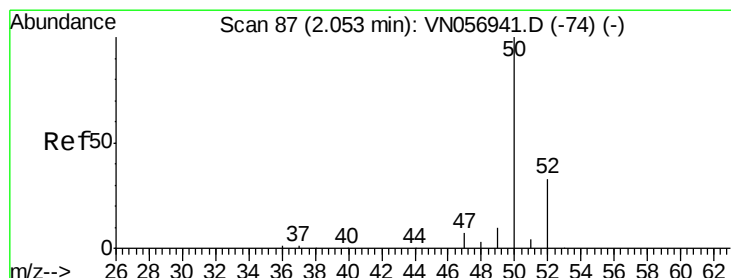
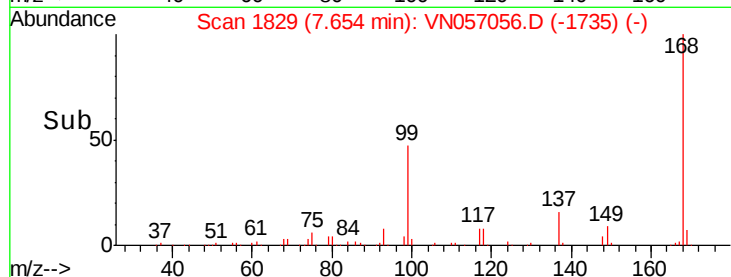
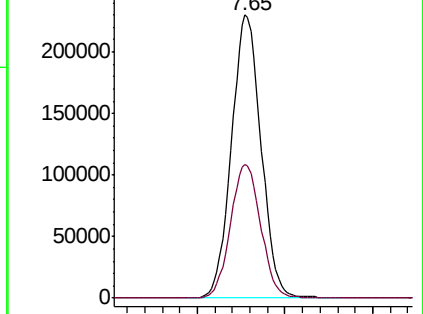
168 100

99 47.4 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.581 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057056.D

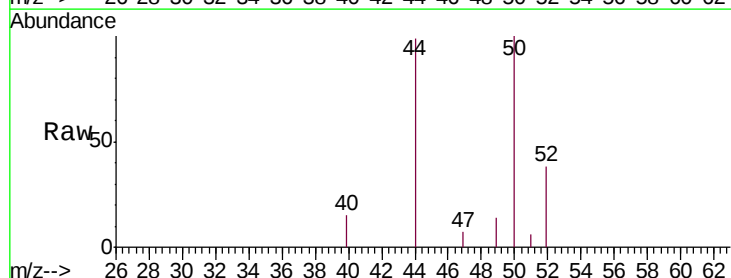
Acq: 2 Aug 2019 11:13

Tgt Ion: 50 Resp: 3799

Ion Ratio Lower Upper

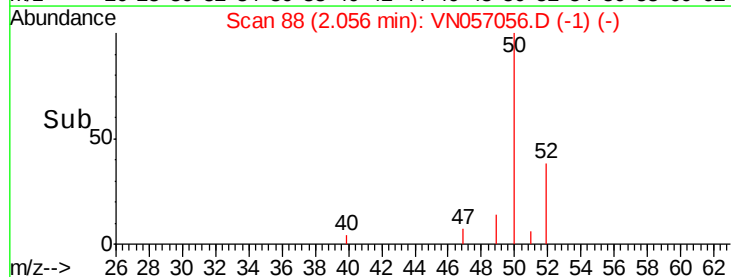
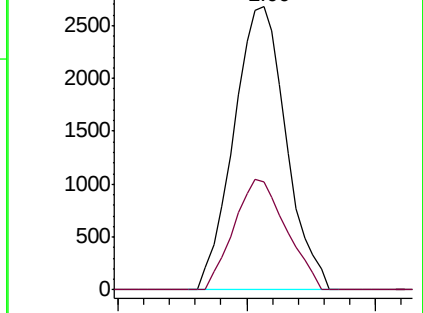
50 100

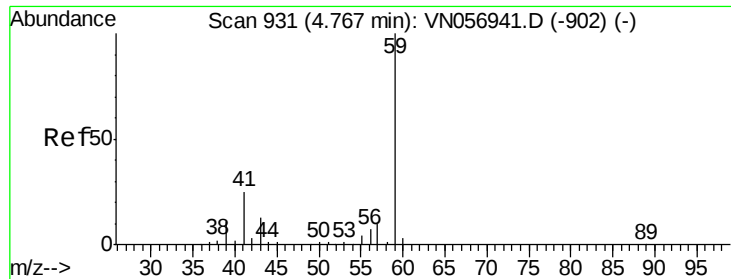
52 38.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

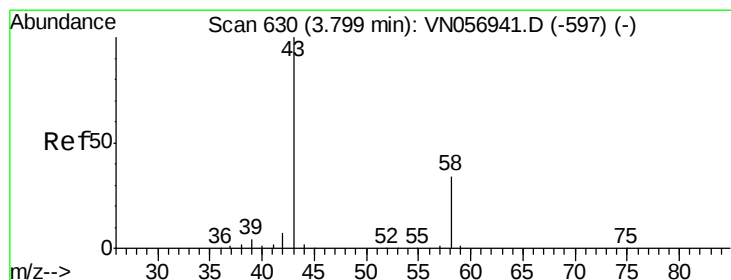
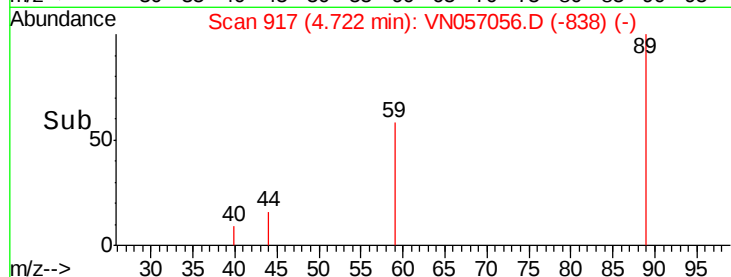
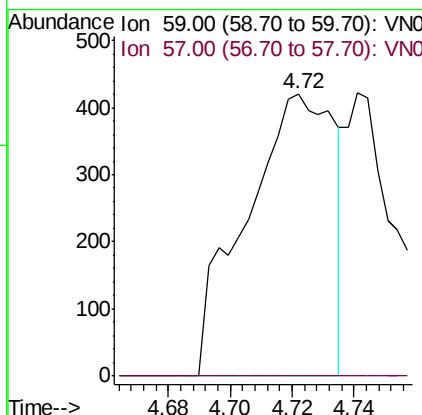
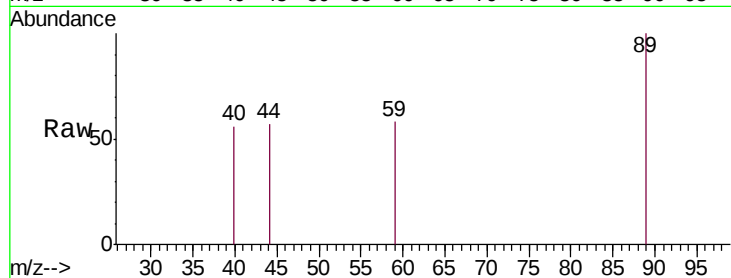




#11
Tert butyl alcohol
Concen: 1.112 ug/l
RT: 4.72 min Scan# 917
Delta R.T. -0.04 min
Lab File: VN057056.D
Acq: 2 Aug 2019 11:13

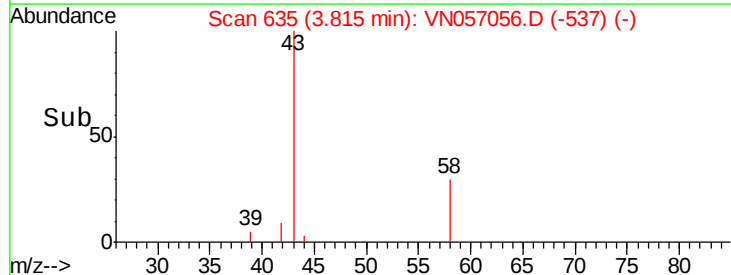
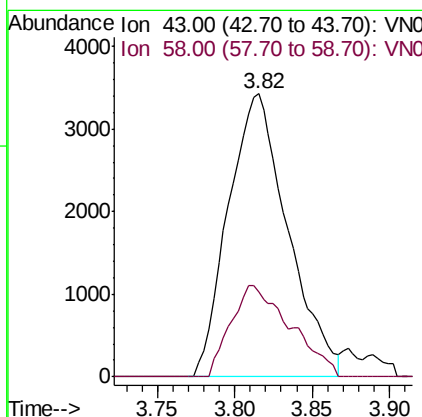
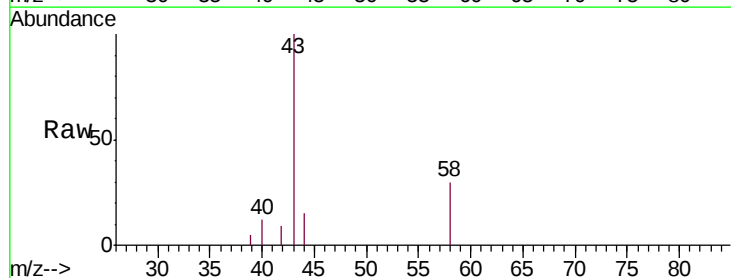
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ182I-20190731

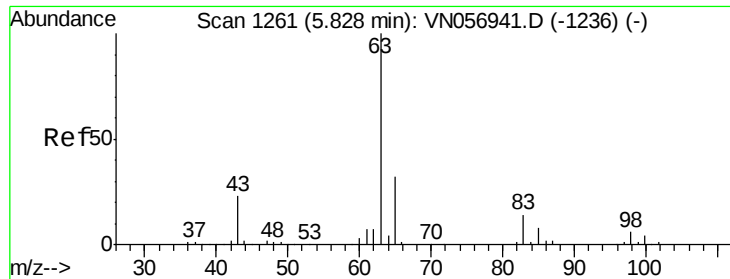
Tgt Ion: 59 Resp: 831
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#16
Acetone
Concen: 4.576 ug/l
RT: 3.82 min Scan# 635
Delta R.T. 0.02 min
Lab File: VN057056.D
Acq: 2 Aug 2019 11:13

Tgt Ion: 43 Resp: 9165
Ion Ratio Lower Upper
43 100
58 29.8 27.2 40.8





#24

1,1-Dichloroethane

Concen: 1.038 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

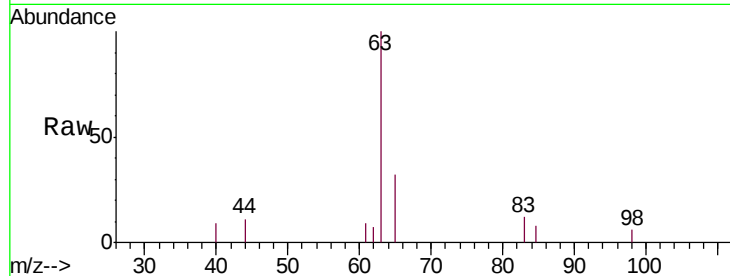
Tgt Ion: 63 Resp: 9744

Ion Ratio Lower Upper

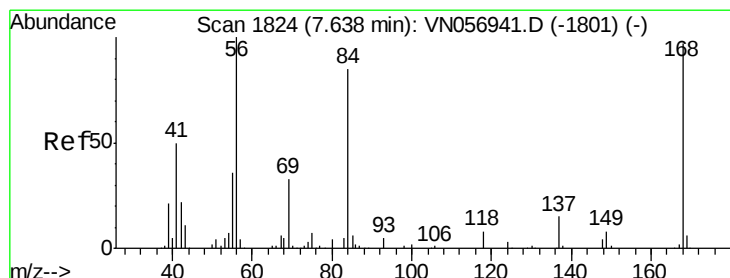
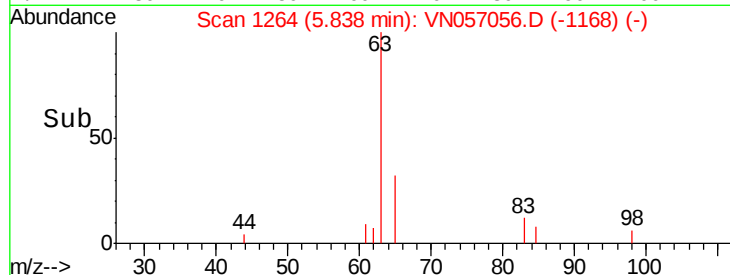
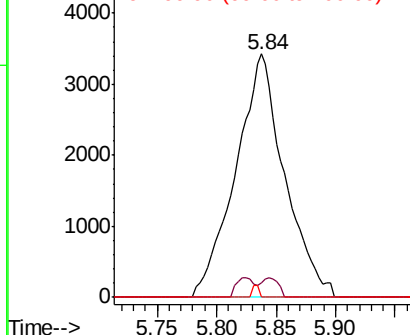
63 100

98 6.1 3.2 9.6

100 0.0 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#31

Cyclohexane

Concen: 0.875 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

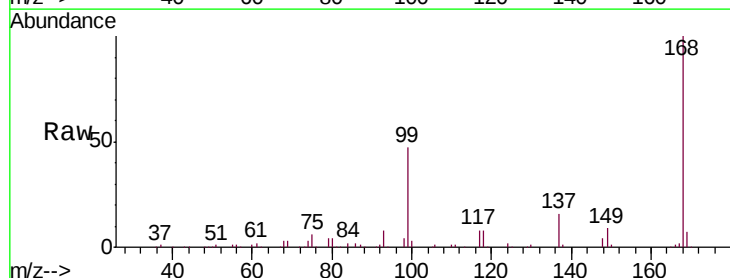
Tgt Ion: 56 Resp: 7949

Ion Ratio Lower Upper

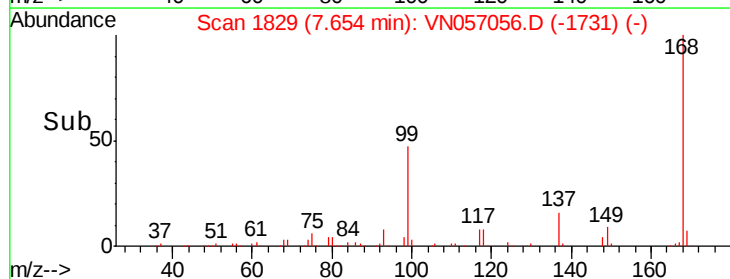
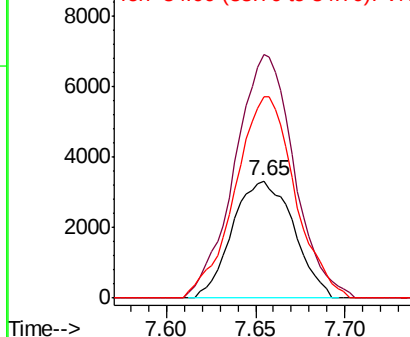
56 100

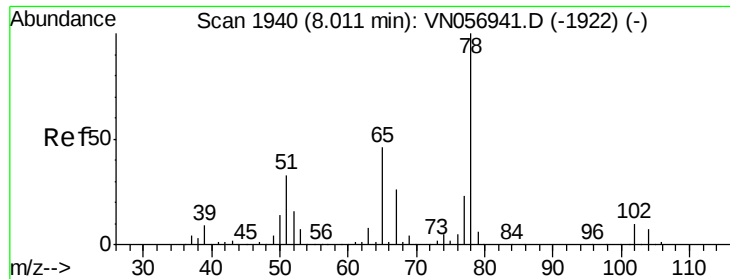
69 202.3 26.2 39.2#

84 165.8 68.2 102.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 55.248 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

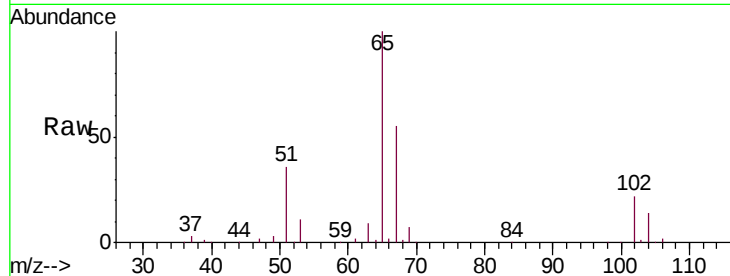
SA-PZ182I-20190731

Tgt Ion: 65 Resp: 305453

Ion Ratio Lower Upper

65 100

67 54.2 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.02

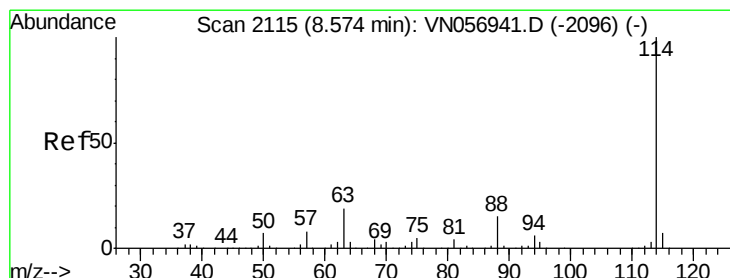
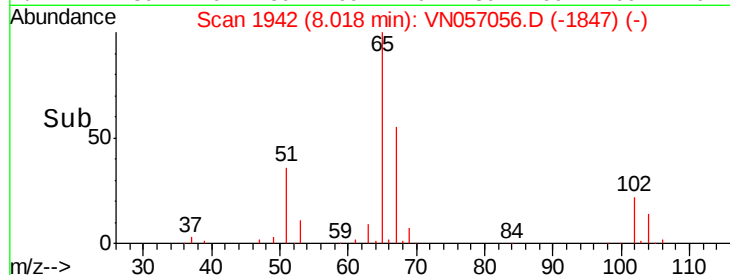
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

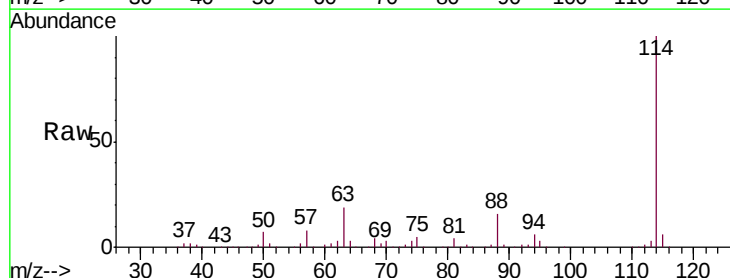
Tgt Ion: 114 Resp: 778278

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.0

88 15.7 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.58

500000

400000

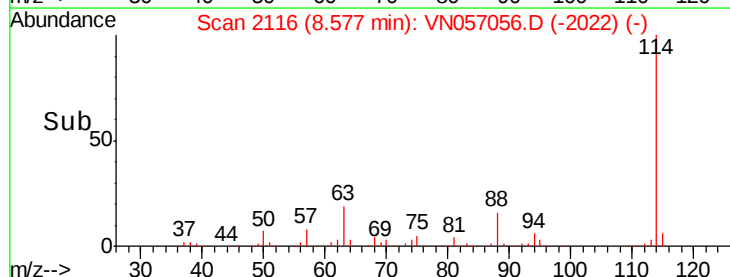
300000

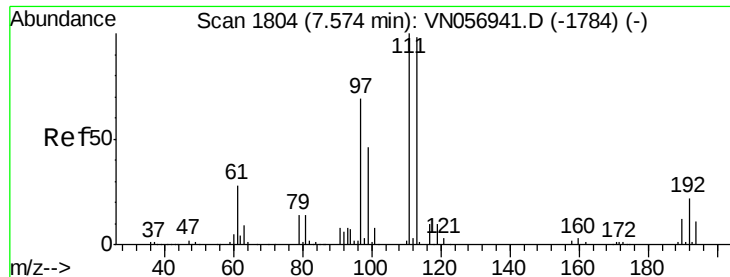
200000

100000

0

Time-->

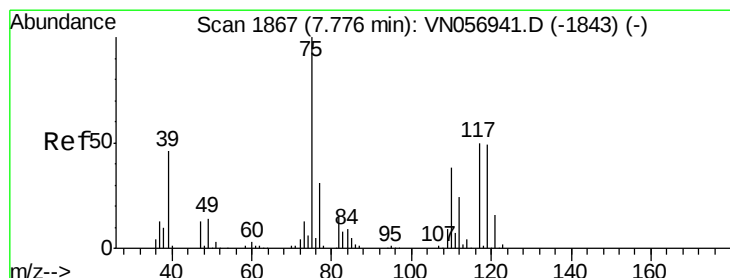
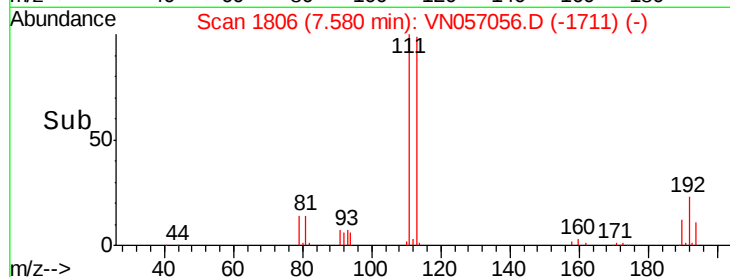
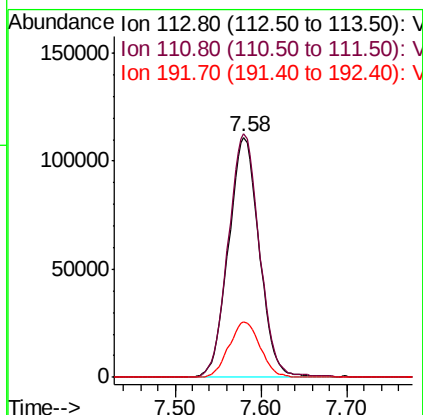
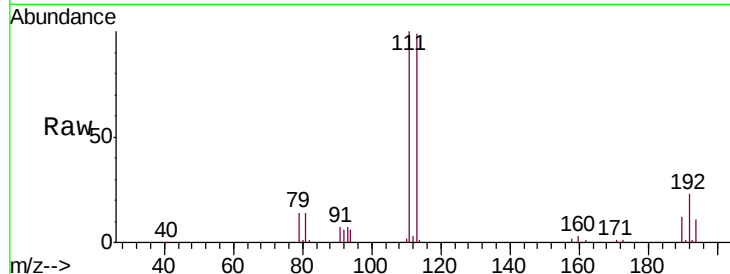




#35
 Dibromofluoromethane
 Concen: 55.505 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057056.D
 Acq: 2 Aug 2019 11:13

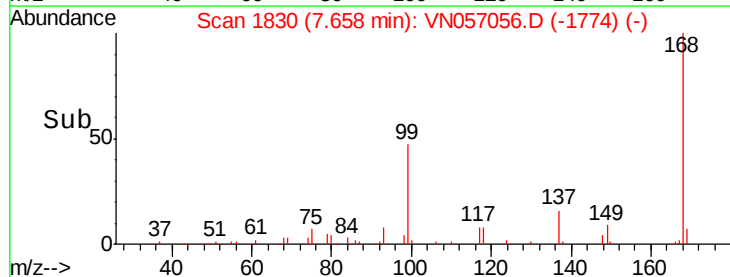
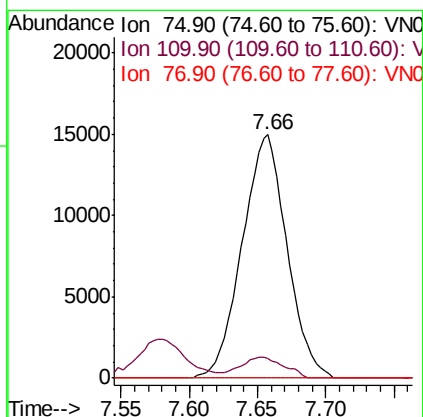
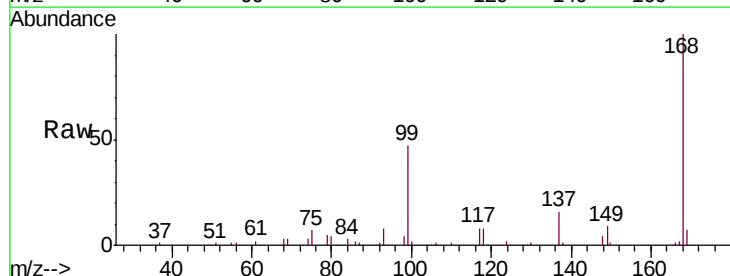
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ182I-20190731

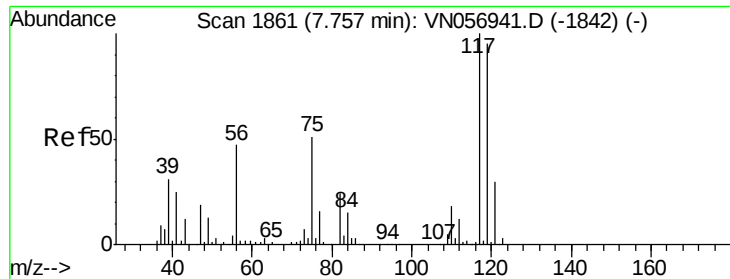
Tgt Ion:113 Resp: 276542
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.0 123.0
 192 23.4 18.4 27.6



#36
 1,1-Dichloropropene
 Concen: 4.977 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.12 min
 Lab File: VN057056.D
 Acq: 2 Aug 2019 11:13

Tgt Ion: 75 Resp: 34084
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.6 55.8#
 77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 6.931 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

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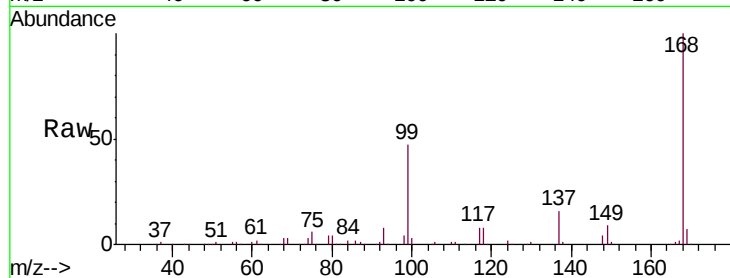
Tgt Ion: 117 Resp: 44897

Ion Ratio Lower Upper

117 100

119 5.7 75.3 112.9#

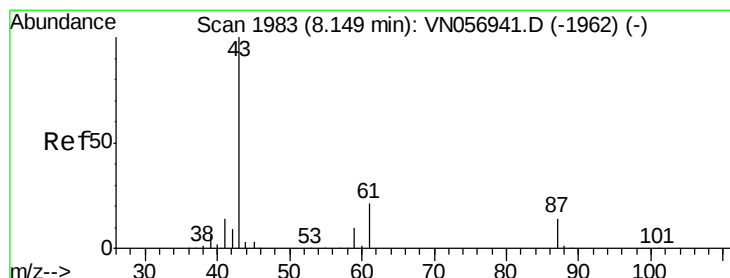
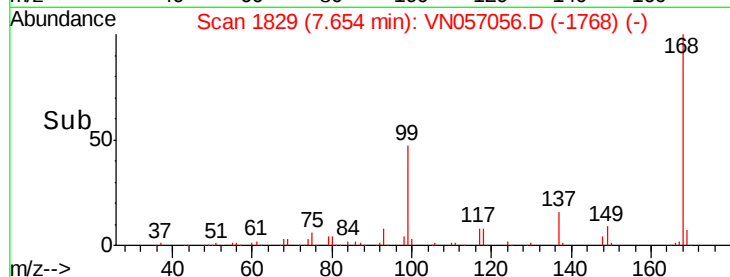
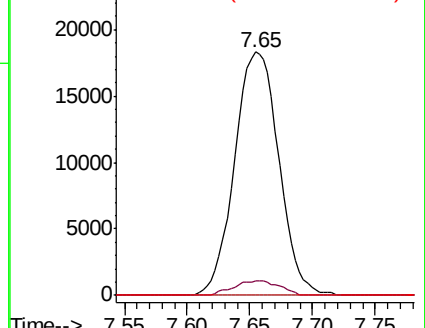
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.121 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.15 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

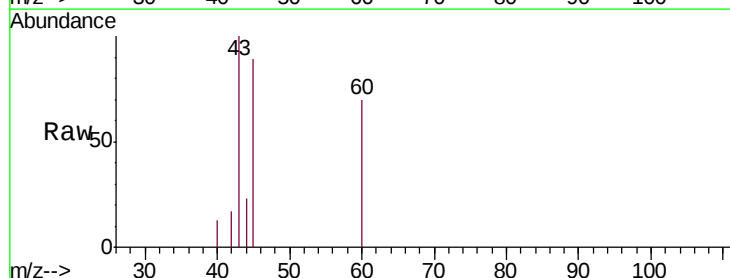
Tgt Ion: 43 Resp: 10161

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

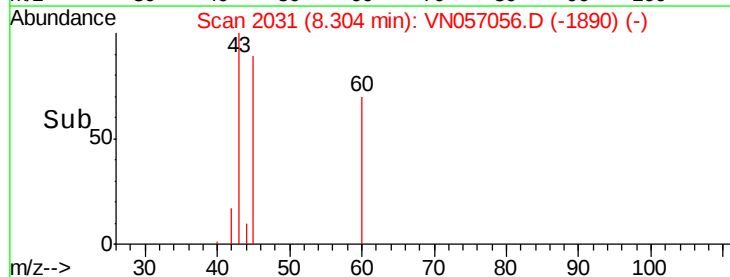
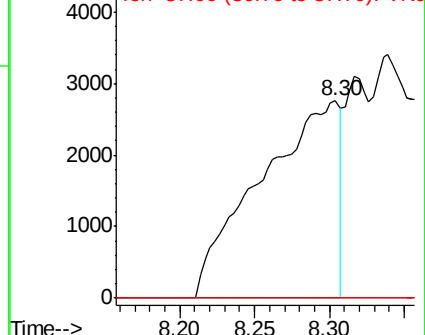
87 0.0 11.7 17.5#

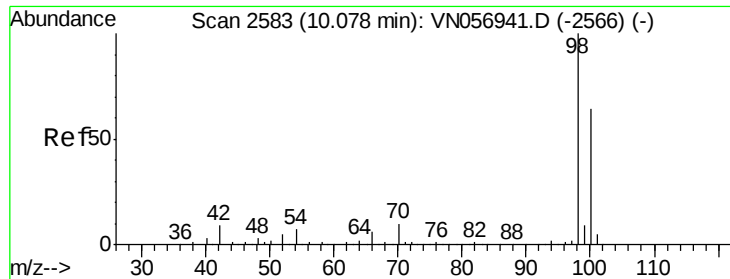


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 53.561 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

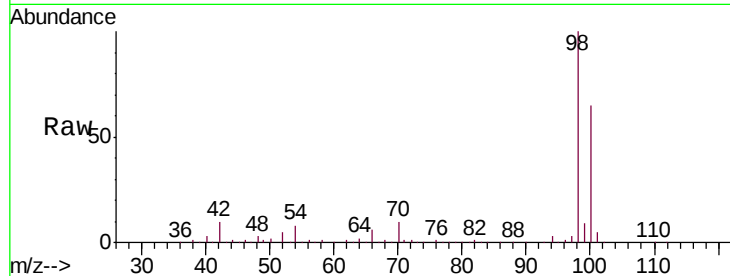
SA-PZ182I-20190731

Tgt Ion: 98 Resp: 1017644

Ion Ratio Lower Upper

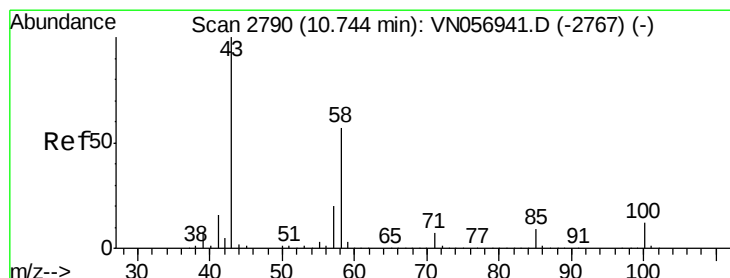
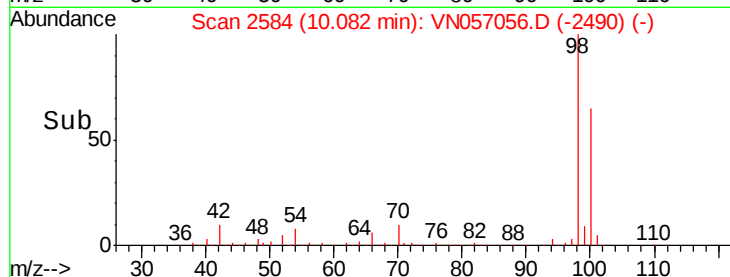
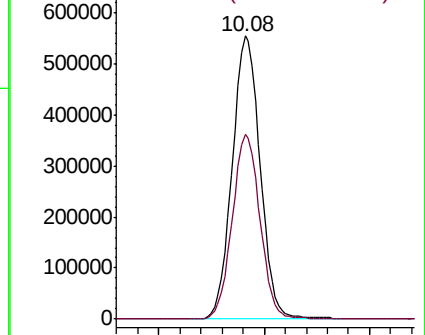
98 100

100 65.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 2.530 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VN057056.D

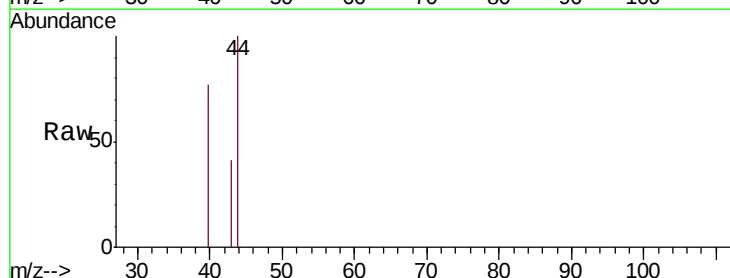
Acq: 2 Aug 2019 11:13

Tgt Ion: 43 Resp: 128

Ion Ratio Lower Upper

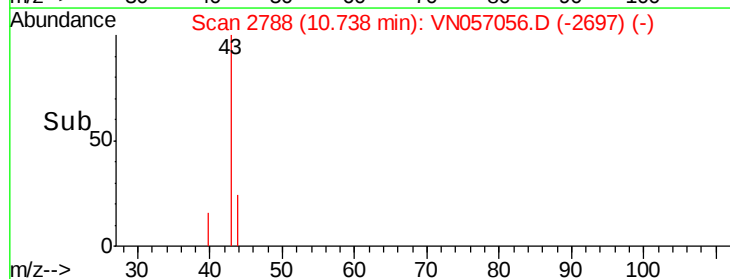
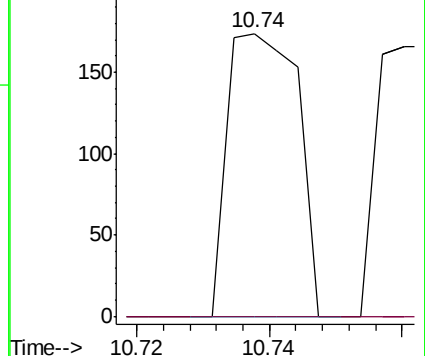
43 100

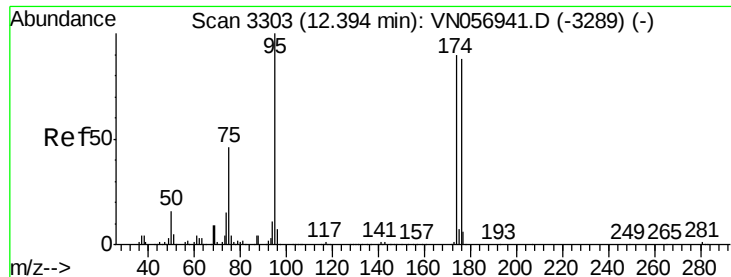
58 0.0 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 41.748 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

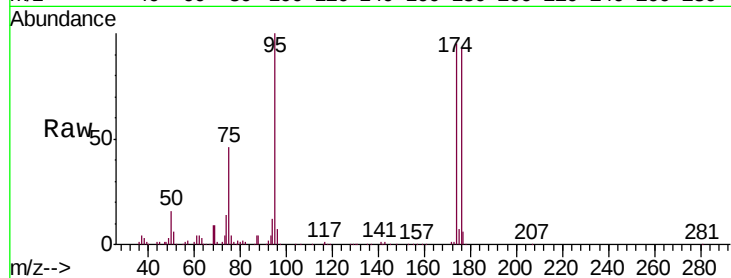
Tgt Ion: 95 Resp: 258225

Ion Ratio Lower Upper

95 100

174 95.4 0.0 182.2

176 92.4 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)

12.40

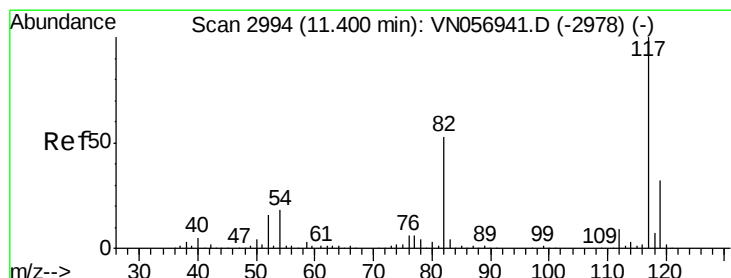
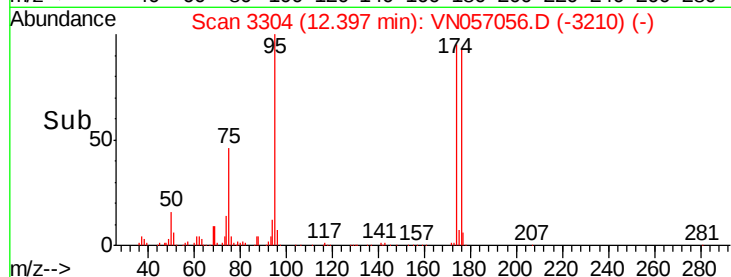
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

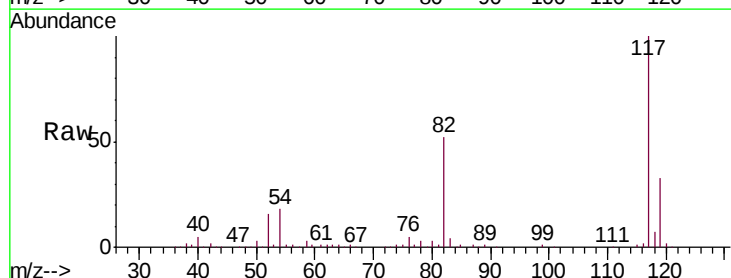
Tgt Ion: 117 Resp: 633964

Ion Ratio Lower Upper

117 100

82 52.5 42.2 63.4

119 32.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

11.40

400000

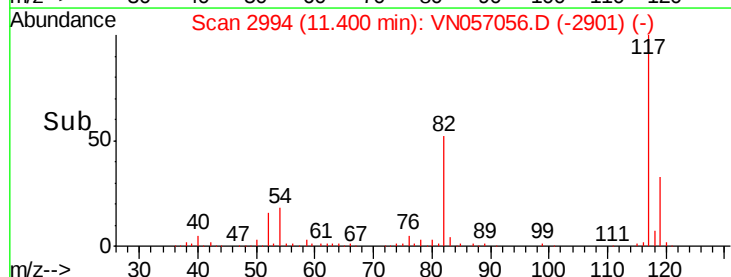
300000

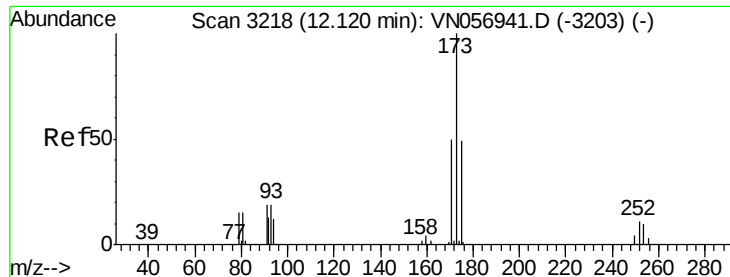
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.627 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

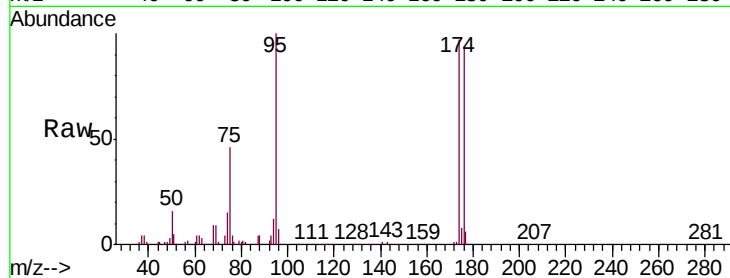
Tgt Ion:173 Resp: 2128

Ion Ratio Lower Upper

173 100

175 673.4 24.1 72.4#

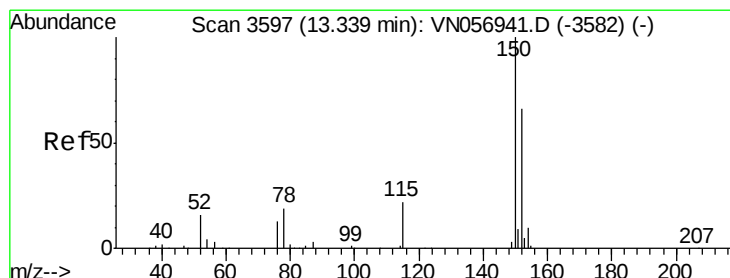
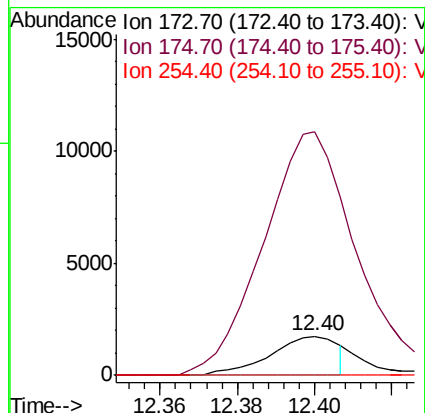
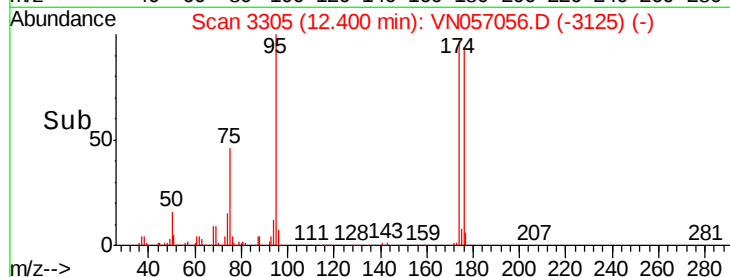
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

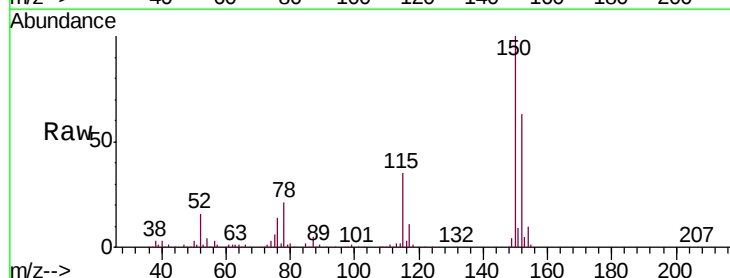
Tgt Ion:152 Resp: 166756

Ion Ratio Lower Upper

152 100

115 54.3 28.2 84.6

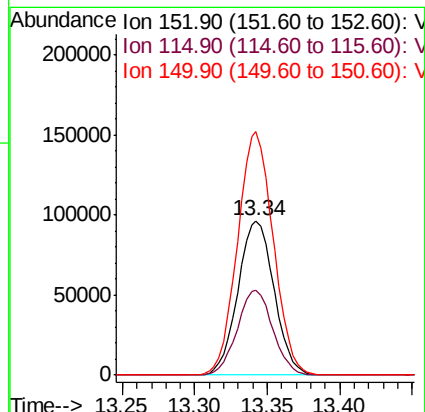
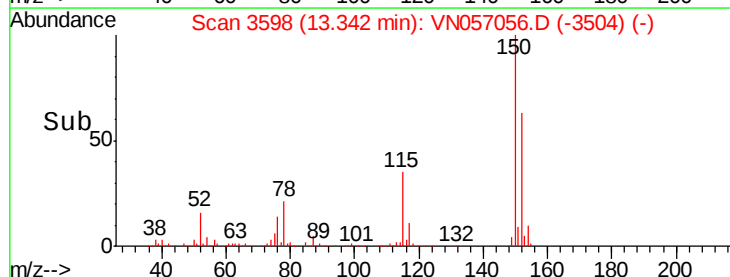
150 156.2 0.0 349.4

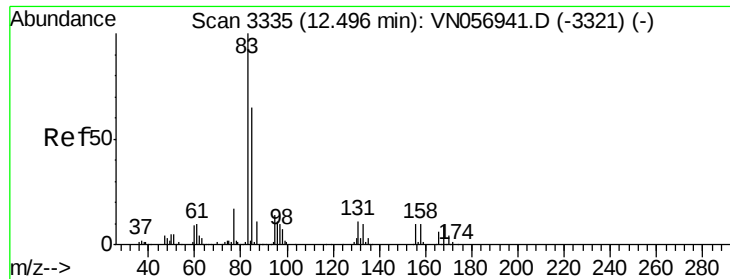


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.09 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

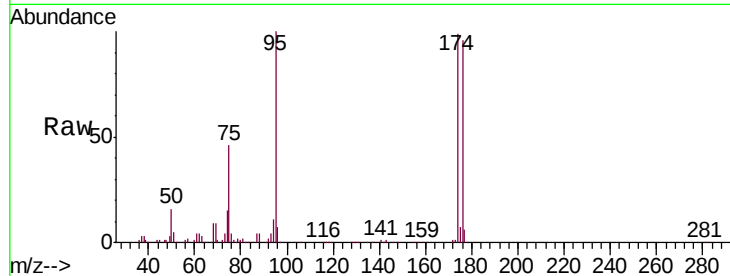
Tgt Ion: 83 Resp: 33

Ion Ratio Lower Upper

83 100

131 1051.5 5.3 16.1#

85 0.0 32.5 97.4#

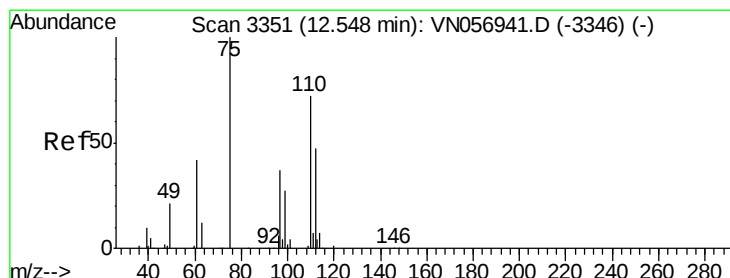
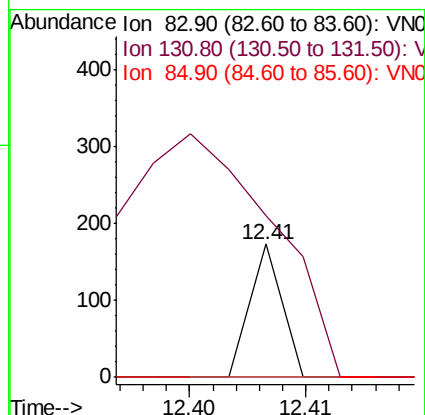
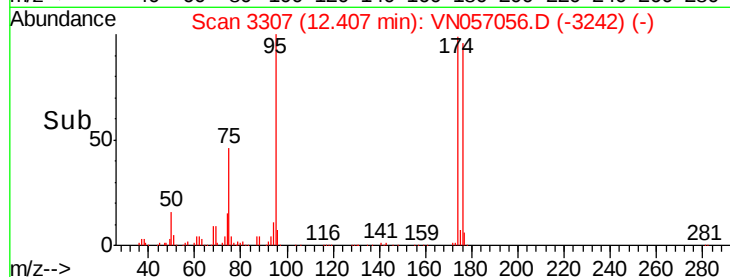


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

Time-->



#76

1,2,3-Trichloropropane

Concen: 35.420 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057056.D

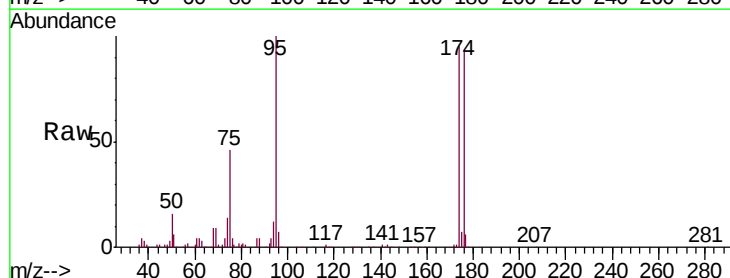
Acq: 2 Aug 2019 11:13

Tgt Ion: 75 Resp: 119952

Ion Ratio Lower Upper

75 100

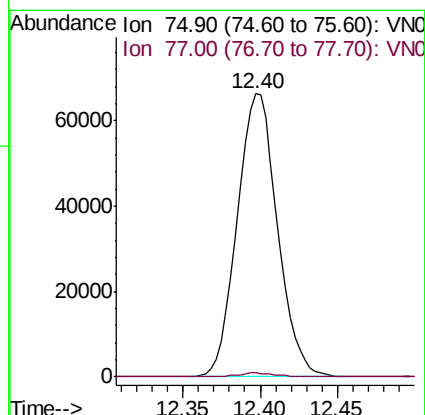
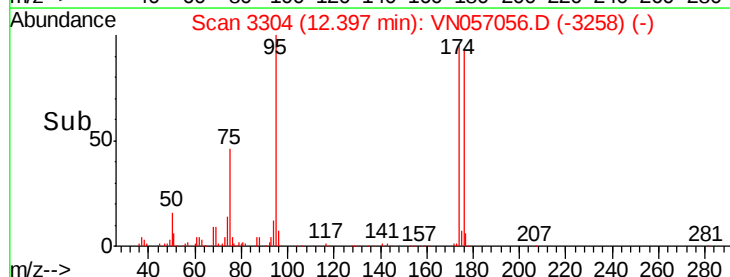
77 1.2 0.0 0.0#

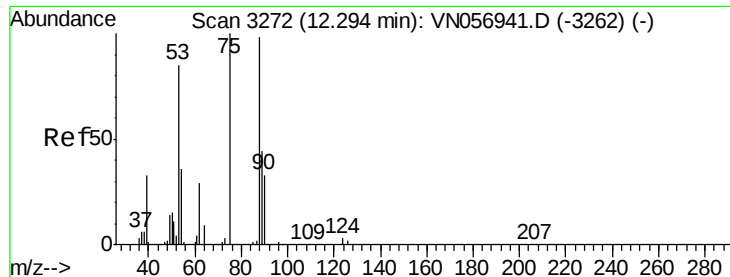


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 113.804 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

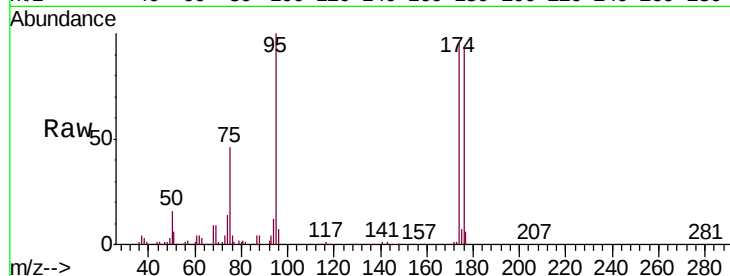
Tgt Ion: 75 Resp: 119952

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

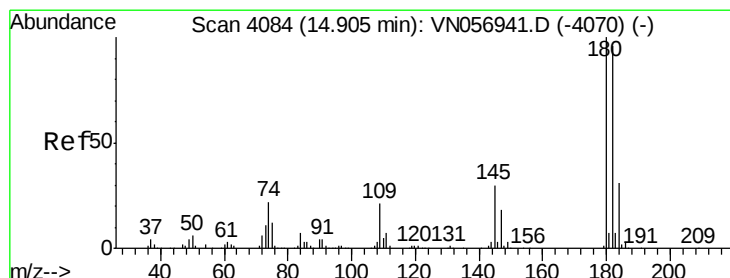
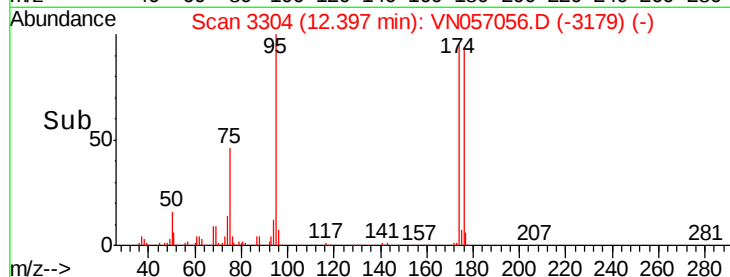
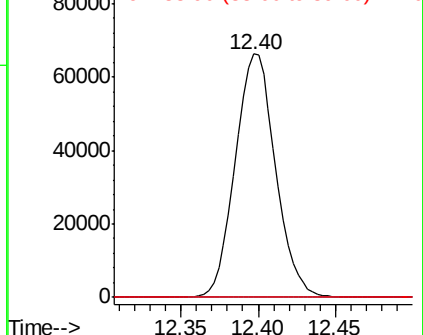
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.818 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

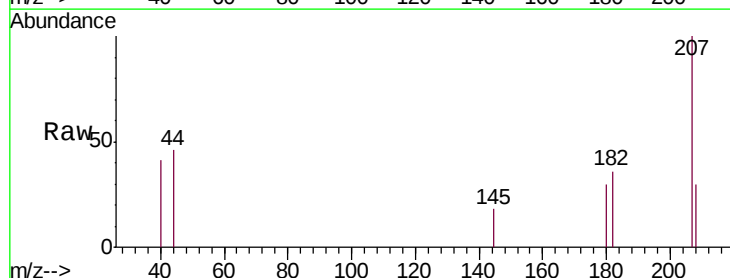
Tgt Ion: 180 Resp: 328

Ion Ratio Lower Upper

180 100

182 111.6 47.6 142.8

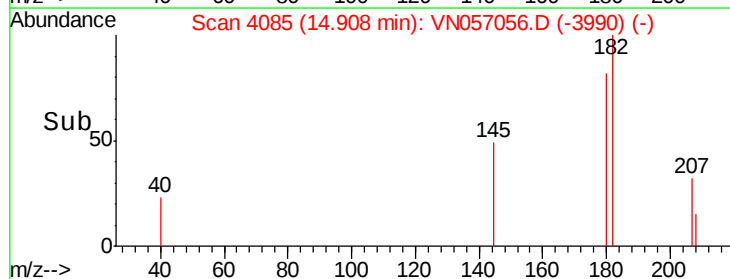
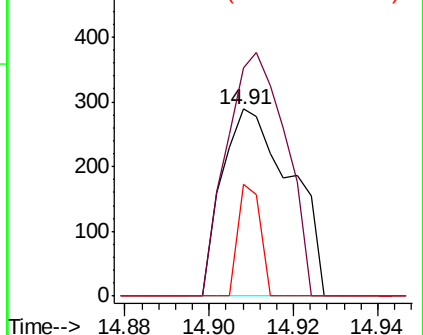
145 19.2 14.2 42.8

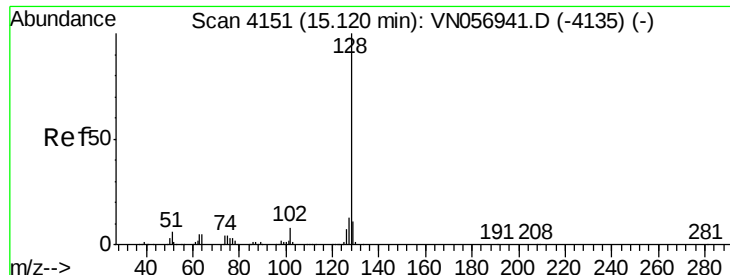


Abundance Ion 179.80 (179.50 to 180.50): VN056941.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN056941.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN056941.D (-4070) (-)





#95

Naphthalene

Concen: 3.649 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ182I-20190731

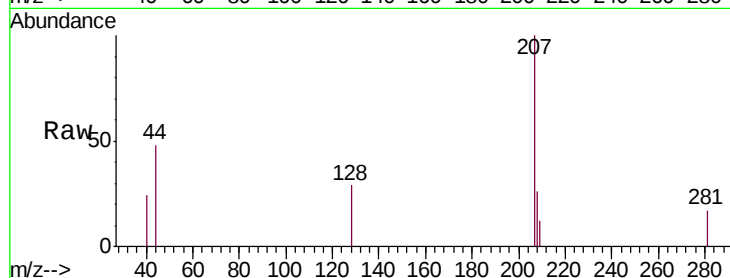
Tgt Ion:128 Resp: 469

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

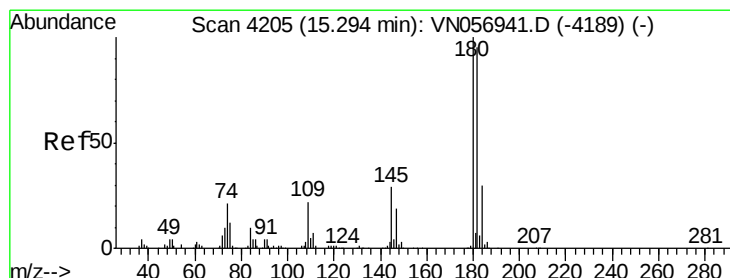
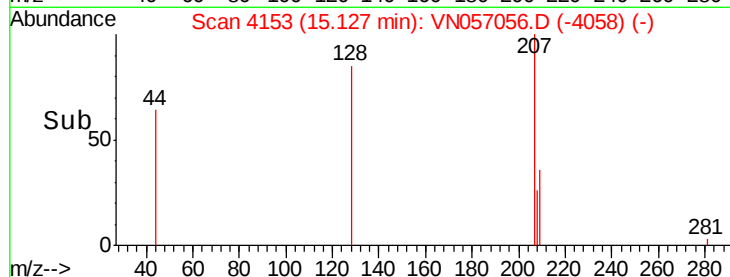
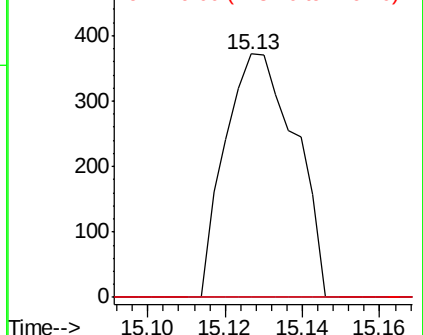
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.202 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.01 min

Lab File: VN057056.D

Acq: 2 Aug 2019 11:13

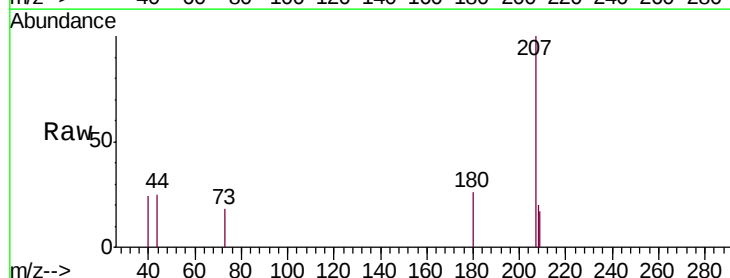
Tgt Ion:180 Resp: 465

Ion Ratio Lower Upper

180 100

182 21.3 48.0 144.2#

145 0.0 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

